MEYERTECH
SECURITY *with* VISION

MEYERTECH LIMITED
Zebra Court
White Moss View
Greenside Way
Manchester M24 1UN

Tel: +44 (0)161 643 7956
Fax: +44 (0)161 628 9811
Email: tech-supportsupport@meyertech.co.uk
http://www.meyertech.co.uk

INSTALLATION MANUAL

for

ZoneVu™

ZSC-1000 and ZSC-1000plus SITE CONTROLLER

Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIMITED cannot accept any liability for any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means without prior written consent from MEYERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.

CONTENTS

CONTENTS 2
ZSC-1000 INTRODUCTION 3
ZoneVu ZSC-XXXX 3
CONNECTING THE ZSC-1000 4
Unpacking 4
Recommended Cable 4
Connector Table 4
Connection Diagram 5
Intersite Requirements 7
PRODUCT WARRANTY 9

Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIMITED cannot accept any liability for any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means without prior written consent from MEYERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.

ZSC-1000 INTRODUCTION

Thank you for purchasing the ZoneVu ZSC-1000 System Site Controller.

ZoneVu ZSC-XXXX

As the name suggests the ZoneVu System Site Controller product family are responsible for co-ordinating communications at each site. Currently three variants are available each having a different level of specification, the ZSC-500, ZSC-1000 and ZSC-1000plus models which offer third party control interfaces, remote site access and local site control, full peer to peer intersite access, comprehensive system backup and audit facilities and on-line remote support when connected to a PC GUI.

The ZSC-1000s are the flagship products of the ZoneVu Site Controller family. They differentiate themselves from the other family member products through their INTERSITE capabilities, which are Peer to Peer, and their System Support.

The ZSC-1000 and ZSC-1000plus have the same external connections and are installed in an identical manner.

SYSTEM PARAMETER	***ZSC-1000 SUPPORT***	***ZSC-1000plus SUPPORT***
Local ZoneVu Ports	3 (ZVM, ZVK, PC2)	3 (ZVM, ZVK, PC2)
Remote ZoneVu Ports	4 (ZVR1, ZVR2, ZVR3, ZVR4)	4 (ZVR1, ZVR2, ZVR3, ZVR4)
Local 3rd Party Control Ports	1 (PC1)	1 (PC1)
Remote 3rd Party Control Ports	4 (ZVR1, ZVR2, ZVR3, ZVR4)	4 (ZVR1, ZVR2, ZVR3, ZVR4)
Intersite ZoneVu Ports	2 (Intersite In, Intersite Out)	2 (Intersite In, Intersite Out)
Local Cameras	256	4096
Local Monitors	256	2048
Local Keyboards / GUIs	32	32
Local Peripherals	90	90
Local Alarm Events	500	500
Local Sequences	8	32
Intersite Video	Export and Import	Export and Import
Intersite Camera Control	Export and Import	Export and Import
Intersite Capability	Full peer to peer	Full peer to peer
Intersite Input Trunks	39	384
Intersite Output Trunks	39	128
Timed events	100	128

Information regarding other Meyertech products and technical information can be found at our website http://www.meyertech.co.uk

Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIMITED cannot accept any liability for any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means without prior written consent from MEYERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.

CONNECTING THE ZSC-1000

To obtain the optimum performance from your ZSC-1000 Site Controller, please take time to read this manual before commencing installation. If you have any questions or problems our staff will be pleased to assist you on our support line TEL: +44 (0) 161 643 7956

Unpacking

Unpack the ZSC-1000 and check the contents against the list below.

- ZSC-1000 1u 19-inch Euro enclosure
- Power Supply 12V

Connect up the ZSC-1000 in accordance with diagram shown. Looking at the back of the rack pin number one is on the left on the 2-part 6-way connectors of the ZVM, ZVK and ZVR ports.

Recommended Cable

RS422 Half-Duplex connections	Beldon 2-pair 9842 or 9502
RS485 Half-Duplex connections	Beldon 1-pair 8761
RS422 Simplex connections	Beldon 1-pair 8761

Connector Table

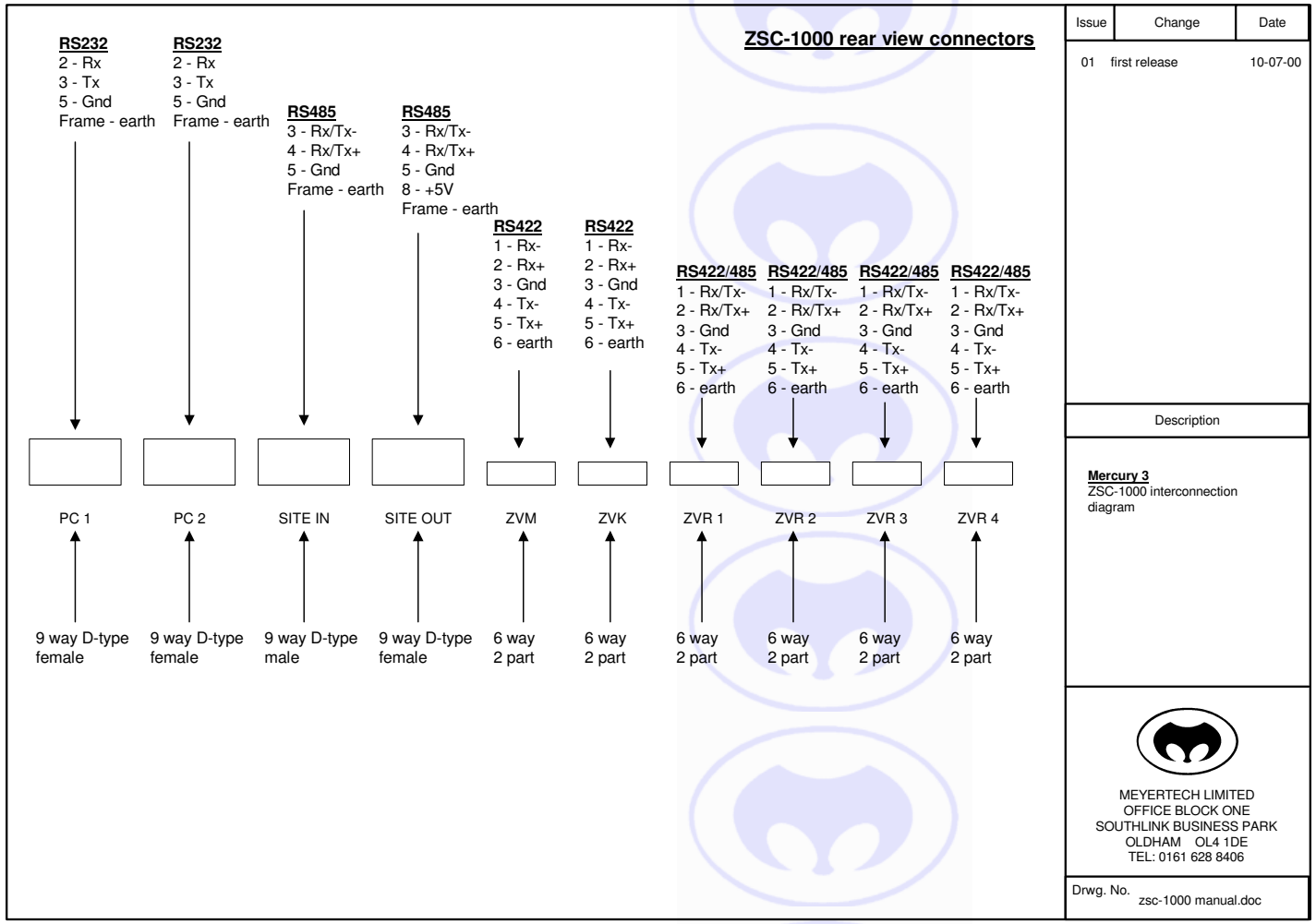
NAME	CONNECTOR	FUNCTION	TYPE
POWER	12V power jack	POWER INPUT	POWER
SITE IN	9-way D type plug	INTERSITE COMMS	RS485
SITE OUT	9-way D type socket	INTERSITE COMMS	RS485
PC 1	9-way D type plug	PC CONTROL 1	RS232
PC 2	9-way D type plug	PC CONTROL 2	RS232
ZVM	6-way 2-part	MATRIX NETWORK	RS422
ZVK	6-way 2-part	KEYBOARD NETWORK	RS422
ZVR 1	6-way 2-part	CAMERA CONTROL 1	RS422 or RS485
ZVR 2	6-way 2-part	CAMERA CONTROL 2	RS422 or RS485
ZVR 3	6-way 2-part	CAMERA CONTROL 3	RS422 or RS485
ZVR 4	6-way 2-part	CAMERA CONTROL 4	RS422 or RS485
PSU FUSE (*)	NONE	POWER FUSE 1A Anti-surge	FUSE

(* not fitted on newer models)

Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIMITED cannot accept any liability for any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means without prior written consent from MEYERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.

Connection Diagram



Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIM or any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means witho YERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.

Intersite Requirements

Supported Sites
The site controller can connect to a large number of remote sites.

Remote Site	ZSC-1000	ZSC-1000plus
Peer-peer Direct connection	16	16 / 99 *1
Simplex Direct connection*2	99	99
Dialup connection	99	99
Total sites	99	99

*2 limitations when running in simplex mode – contact Meyertech for further details
*1 dependent on firmware version

Baud Rates
The site controller will communicate with other site controllers at various baud rates:

Baud rate	Usage
9600	Small installations
19200	> 8 sites
38400	As required
57600	As required

Turnaround Time
Turnaround time is the time taken for transmission equipment to finish receiving data before it starts transmitting. Similarly the time taken from finishing transmission to when it goes high impedance.

For connecting to 3rd party transmission equipment, our referenced turnaround time should be treated as their maximum turnaround. (i.e. 3rd party must be faster than Meyertech)

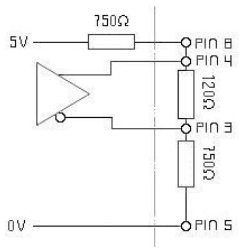
On some equipment the minimum turnaround time is determined by baud rate. i.e. if the site controller is running at a slow baud, they must not have too fast a turnaround, as it could turn mid-bit.

Note : firmware version from 3.20.0.0 onwards have configurable turnaround times, defaulting to 4ms.

Baud rate	Turnaround time (ms)
9600	4
19200	3
38400	2
57600	1

RS485 Interface

- RS485
- 2 – wire
- Half- duplex
- 2 connectors provided to assist daisy chaining
- Un-terminated
- Un-biased
- Pre-biasing can be achieved by using the 750R pull-up resistor provided on pin 8 on the Intersite Out port, in conjunction with an external (not provided) 750R pull-down resistor connected to the 0v connection on pin 5.



Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIMITED cannot accept any liability for any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means without prior written consent from MEYERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.

EC DECLARATION OF CONFORMITY ACCORDING TO ARTICLE 10 OF COUNCIL DIRECTIVE 89/336/EEC

Manufacturer MEYERTECH LIMITED

Address

Meyertech Limited
Office Block One
Southlink Business Park
Oldham
OL4 1DE

Declares, that the product(s)

Product Code : ZSC-1000 System Site Controller

Model(s): All

Product Options: All

conforms to the following Product Specifications

EN55022 CLASS B
EN50093
EN60950 Amendments 1, 2, & 3 1992

Supplementary Information:

MEYERTECH declare under our sole responsibility that the product to which this declaration relates, is in conformity with the protection requirements of council directive 89/336/eec on the approximation of the laws of the member states relating to electromagnetic compatibility, when installed in accordance with the instructions given in this manual.

SIGNED -

S K MEYERS
Managing Director
Meyertech Limited

ISSUED THIS DAY: 20th July 2000

Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIMITED cannot accept any liability for any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means without prior written consent from MEYERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.

PRODUCT WARRANTY

MEYERTECH LIMITED warrants that at the time of shipment the products manufactured by Meyertech will be free from defects in material and workmanship.

Should any defects appear within twelve months from date of shipment, Meyertech shall at it's sole discretion repair or replace the defective material. Such material shall not be accepted for return or repair without prior notification of Meyertech.

Return shipments to Meyertech shall be at the customer's expense. Meyertech will return said equipment prepaid via best way.

This warranty is in lieu of and excludes any and all other expressed or implied warranties of merchantability or fitness, or otherwise. Items manufactured by any supplier other than Meyertech shall bear only the warranty made by the manufacturer of that product, and Meyertech assumes no responsibility for the performance or reliability of that product.

Meyertech will not be liable for any special or consequential damages, or for loss, damages, or expense directly or indirectly arising from the use of the products, or any inability to use them either separately or in combination with any other equipment or material or from any other cause.

This warranty does not extend to any product manufactured by Meyertech, which has been subject to misuse, neglect, accident, war, civil disturbance, terrorist acts, improper installation, act of God, or in violation of the instructions supplied by Meyertech.

Whilst every effort has been made to confirm the information in this document is correct, MEYERTECH LIMITED cannot accept any liability for any errors, omissions and or incorrect information contained within this document. No part of this document may be reproduced or distributed in any form or by any means without prior written consent from MEYERTECH LIMITED. MEYERTECH LIMITED is committed to continuous product development and therefore reserves the right to change specifications without notice.

© 2000-14 ALL RIGHTS RESERVED.